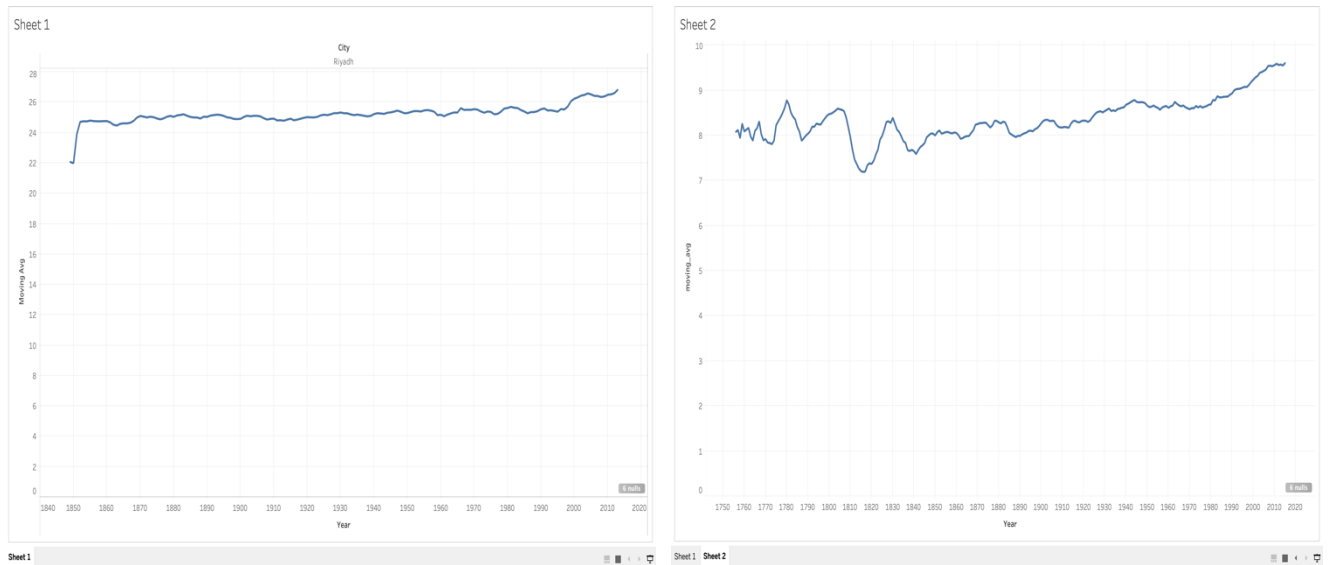


Project 1

Mohammed alhelali



Is your city hotter or cooler on average compared to the global average?
Has the difference been consistent over time?

My city is much hotter compared to the global average, the difference was increasing in the early years and in the middle it became constant and in the end the global average increased, but it did not reach the level of my city.

“How do the changes in your city’s temperatures over time compare to the changes in the global average?”

The temperature was low in the first year and rose in 1850 and the temperature was moderate, but there were slight fluctuations until the end of the year 2013, it rose slightly, and the global average is not constant compared to my city.

What does the overall trend look like? Is the world getting hotter or cooler?
Has the trend been consistent over the last few hundred years?

The general trend is high compared to previous years, the world is getting hotter, from the year 1750 until the year 1850 the general level was not constant and there are sudden highs and lows, and from 1851 to 2020 in slightly high fluctuations.

What tools did you use for each step?

I use the sql query to take the data , use the excel to calculate the moving average and visualized data use tableau .

How did you calculate the moving average?

I use the excel to calculate the moving average 7 day : $(x_1+x_2+\dots+x_n)/n$.

What were your key considerations when deciding how to visualize the trends?

The data is correct, error-free and missing value, real data content and visualize type.